



6DN7

MEDIUM-MU DUAL TRIODE With Dissimilar Units

6DN7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC). 6.3 $\pm$ 10% volts
Current 0.9 amp

Direct Interelectrode Capacitances (Approx.):^o

	Unit No.1	Unit No.2	
Grid to plate	4	5.5	μ f
Grid to cathode and heater. . .	2.2	4.6	μ f
Plate to cathode and heater . .	0.7	1	μ f

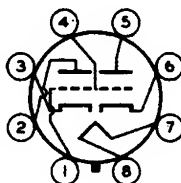
Characteristics, Class A₁ Amplifier:

	Unit No.1	Unit No.2	
Plate Voltage	250	150 250	volts
Grid Voltage.	-8	0 -9.5	volts
Amplification Factor.	22.5	- 15.4	
Plate Resistance (Approx.). . .	9000	- 2000	ohms
Transconductance.	2500	- 7700	μ hos
Plate Current	8	68* 41	ma
Grid Voltage (Approx.) for plate ma. = 10	-18	- -	volts
Grid Voltage (Approx.) for plate ma. = 50	-	- -23	volts

Mechanical:

Operating Position. Any
Maximum Overall Length. 3"
Maximum Seated Length 2-7/16"
Maximum Diameter. 1-9/32"
Bulb. T9
Base. Intermediate-Shell Octal 8-Pin
with External Barriers (JEDEC Group 1, B8-142)
Basing Designation for BOTTOM VIEW. 88D

Pin 1-Grid of
Unit No.2
Pin 2-Plate of
Unit No.2
Pin 3-Cathode of
Unit No.2
Pin 4-Grid of
Unit No.1



Pin 5-Plate of
Unit No.1
Pin 6-Cathode of
Unit No.1
Pin 7-Heater
Pin 8-Heater

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^o

DC PLATE VOLTAGE. 350 max. volts

6DN7



6DN7

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PEAK NEGATIVE-PULSE GRID VOLTAGE.	400	max.	volts
PLATE DISSIPATION	1	max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	2.2	max.	megohms
For cathode-bias operation.	2.2	max.	megohms

VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No. 2

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE.	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE [#]	2500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	150	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	10	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	2.2	max.	megohms
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[□] Without external shield.

^{*} This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

[□] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

[▲] The dc component must not exceed 100 volts.

[#] This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.



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